

Applicant: George P. Emerson  
For: IMPROVED INSUFFLATION-EXSUFFLATION SYSTEM WITH  
PERCUSSIVE ASSIST FOR REMOVAL OF BRONCHO-  
PULMONARY SECRETIONS

ABSTRACT OF DISCLOSURE

5           An improved insufflation-exsufflation system with percussive assist for removal  
of broncho-pulmonary secretions includes a conduit for connection to a patient's airway; a  
pressure source for providing to the conduit alternating positive and negative pressure  
fluctuations at a first rate corresponding to patient insufflation-exsufflation; and a control  
mechanism for varying pressure during positive and negative pressure fluctuations at a  
10       second higher rate to periodically decrease the positive pressure during positive  
fluctuations and decrease the negative pressure during negative fluctuations to provide  
percussive pulses during at least one of insufflation-exsufflation to clear broncho-  
pulmonary secretions from the patient's airway.